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(54) REAGENT FOR ENZYME IMMUNOASSAY AND PRODUCTION THEREOF

(57)Abstract:

PURPOSE: To improve the sensitivity and reproducibility of the measuring method by forming a labeling enzyme of glucose oxidase GOD and constituting the reagent of enzyme labeled antibodies formed by combining 3 molecules of an antibody or antigen to one molecule of the GOD.

CONSTITUTION: This reagent is prepd. by mixing the GOD and the antibodies at a ratio of two-fold the number of the antibodies to be introduced into one molecule of the GOD and is in the form of a soln. or powder. The enzyme labeled antibodies are prepd. by mixing the GOD and the antibodies at a ratio of 1:2, 1:4, 1:6 (molar ratio) in the case of obtaining the enzyme labeled antibodies of 1, 2, 3 numbers of the antibodies,

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respectively. The enzyme labeled antibodies of mainly 1, 2, 3 numbers of the antibodies are obtd. at the high yield and with the good reproducibility by preparing the above-mentioned antibodies at the above-mentioned ratio. The enzyme labeled antibodies prepd. in such a manner are separated from the unreacted antibodies (about 45,000mol.wt.) and further the unreacted GOD (about 150,000mol.wt.) and the enzyme labeled antibodies of the different numbers of the antibodies generated as a side reaction when the column for high-performance gel chromatograph having about $\geq 600,000$ expulsion threshold and about $\geq 15,000$ theoretical step number is used.

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